

Att'y Ref. No. 003-123

U.S. App. No.: 10/808,493

IN THE CLAIMS:

Kindly rewrite Claims 1-6 as follows; Applicant notes that no amendments are made at this time:

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1. (Previously Presented) An axial-flow thermal turbomachine comprising:
a rotor made from a metallic material with a first density (D_1);
a circumferential groove; and
rotor blades and intermediate pieces alternatingly mounted in the circumferential groove;
wherein said intermediate pieces comprise a material with a second density (D_2) lower
than the first density (D_1).
2. (Previously Presented) The turbomachine as claimed in claim 1, wherein the
material having the second density (D_2) comprises an intermetallic compound.
3. (Previously Presented) The turbomachine as claimed in claim 2, wherein said
intermetallic compound comprises an alloy selected from the group consisting of a γ -titanium
aluminide alloy and an orthorhombic titanium aluminide alloy.
4. (Previously Presented) The turbomachine as claimed in claim 3, wherein said γ -
titanium aluminide alloy has the following chemical composition (in % by weight): Ti-(30.5-
31.5)Al-(8.9-9.5)W-(0.3-0.4)Si.
5. (Previously Presented) The turbomachine as claimed in claim 1, wherein the
material having the second density (D_2) comprises a titanium alloy.
6. (Previously Presented) The turbomachine as claimed in Claim 1, wherein the
turbomachine comprises a gas turbine having a high-pressure compressor with a rotor which
comprises a stainless Cr-Ni steel.